

Results

Test	Boiling temperature / °C			
	Group A	Group B	Group C	Group D
1	90.0	95.0	99.0	102.5
2	91.0	100.0	100.0	100.0
3	90.5	101.0	99.5	101.0
Range (highest result – lowest result)				
Mean	90.5			

Questions

1. Work out the mean temperature for each set of results.
2. Which group has measured an average boiling temperature closest to the expected value, if the pressure is 1 atmosphere?
3. Which group has the most accurate mean result?
4. Which group has the most precise set of readings?
5. A set of data might be described as:
 - accurate and precise
 - inaccurate and precise
 - accurate and imprecise
 - inaccurate and imprecise.

Explain why.

6. One of the people in group A was not happy with the group's result.
 - a. Why do you think this was?
 - b. Suggest two reasons why group A's results are different to the rest of the class.
 - c. Suggest how group A could test out two reasons.